



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

SPECIAL MESSAGE NO. 2

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DATED: 23.05.2023

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

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Subject: Active Western Disturbance to affect Northwest India from 23rd (today) evening to 26th May, 2023.

Significant Meteorological features:

- ❖ A Western Disturbance lies over Iran & neighbourhood
- ❖ A cyclonic circulation lies over central Pakistan in lower tropospheric levels.
- ❖ These systems are likely to move across Northwest India during 23rd to 26th May.
- ❖ It will be accompanied by moisture supply from Arabian Sea during the same period.

Forecast and warning over Northwest India during next 5 days:

- ❖ In association with above; rainfall at most places with **thunderstorm, lightning & occasional gusty winds/squall** very likely over Western Himalayan Region and rainfall at many places with **thunderstorm, lightning & occasional gusty winds/squall** very likely over plains of Northwest India mainly from 23rd evening to 26th May with maximum intensity on 24th & 25th May.
- ❖ **Thundersquall/Gusty Wind speed reaching 50-60 kmph** likely at isolated places over

Uttarakhand on 24th & 25th and over Punjab, Haryana-Chandigarh-Delhi on 24th; and over West Uttar Pradesh on 25th May.

- ❖ **Heavy rainfall** very likely at isolated places over Himachal Pradesh on 23rd & 24th May; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Punjab, south Haryana on 24th May.
- ❖ **Hailstorm** very likely at isolated places over Himachal Pradesh on 23rd & 24th; Uttarakhand during 23rd to 25th; over Punjab & Haryana on 24th and West Uttar Pradesh and north Rajasthan on 24th & 25th May.
- ❖ **Duststorm/Thunderstorm** with gusty winds (40-50 kmph) likely over Rajasthan during 23rd-25th May, 2023.
- ❖ **Strong Surface winds** (speed 25-35 kmph) very likely over South Rajasthan during 23rd to 25th May.

Impact expected:

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- Stay indoors, close windows & doors and avoid travel, if possible, during thunderstorms.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

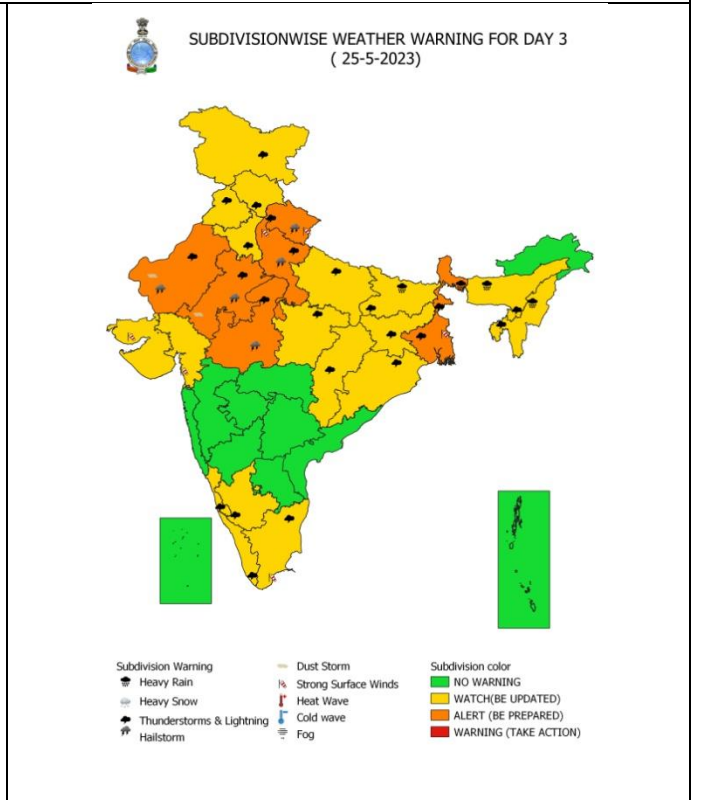
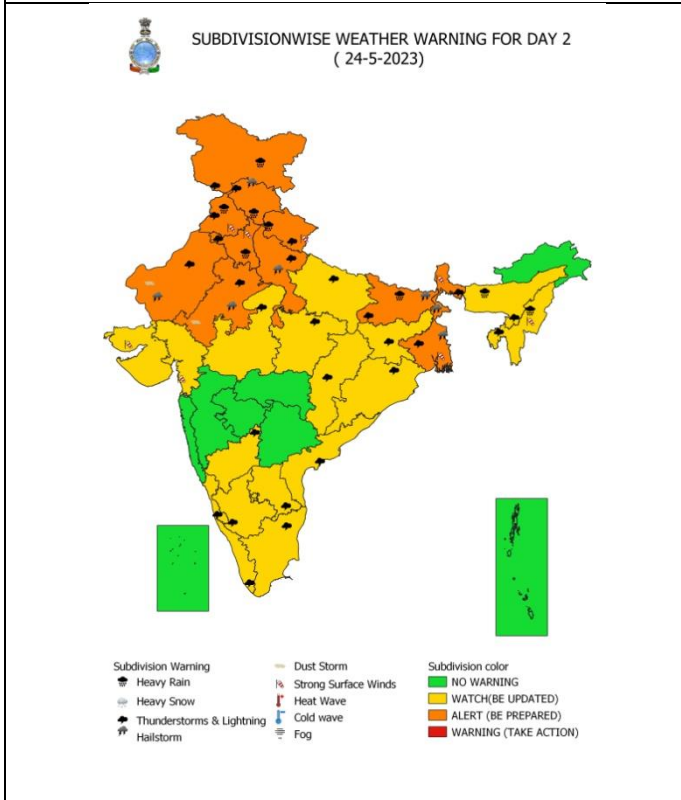
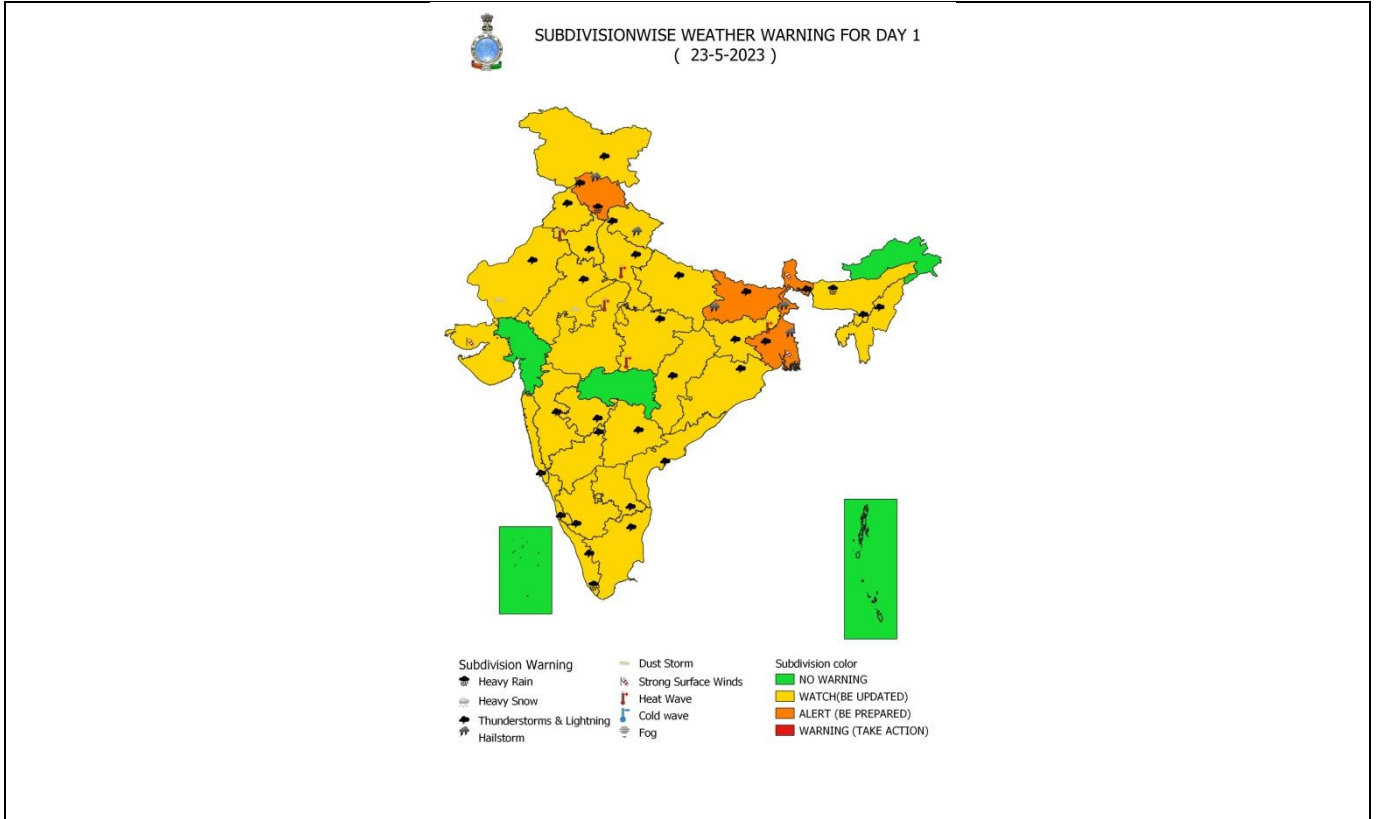
Dr. RK Jenamani
Scientist-G, NWFC

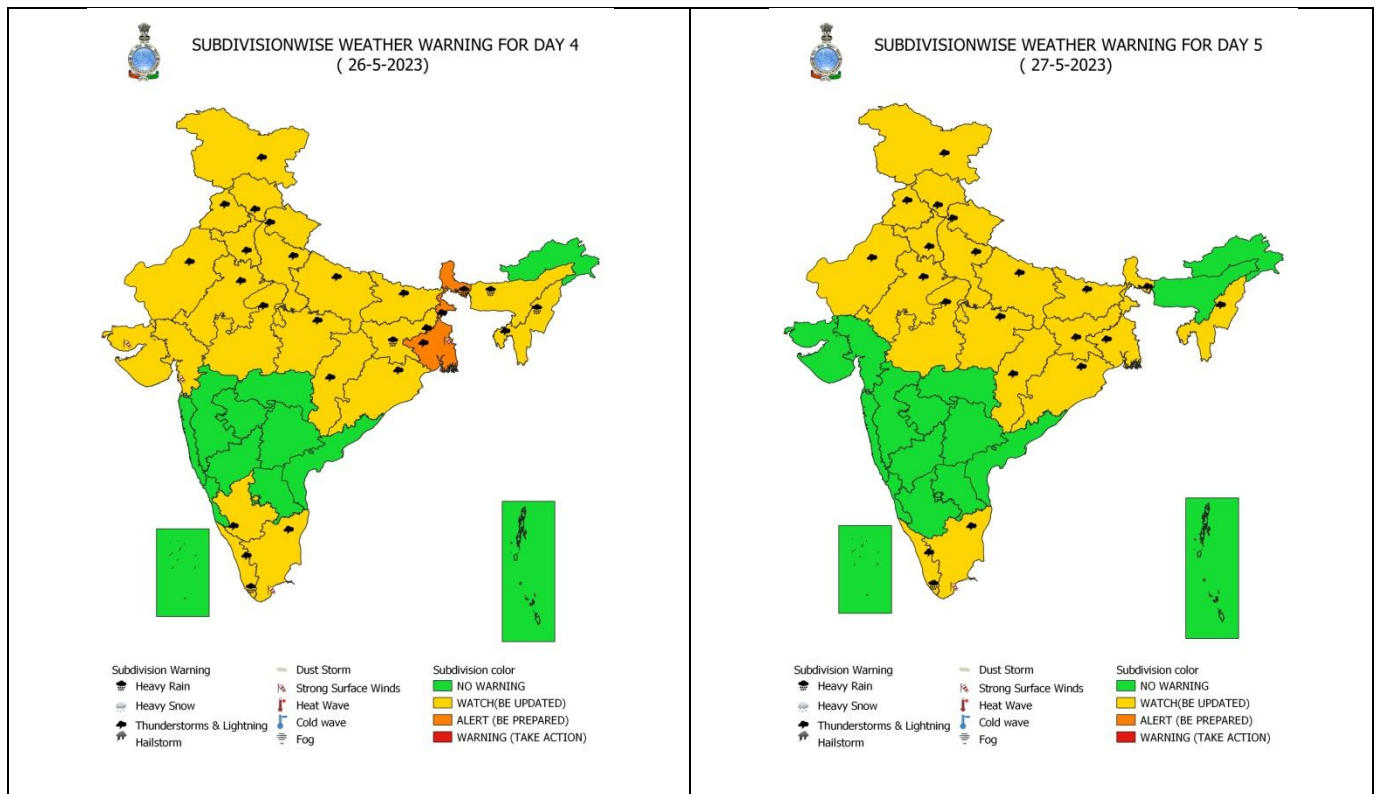
For more details kindly refer:

https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

<https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

Warning Graphics


















Legends:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Region wise classification of meteorological Sub-Divisions:**
 - **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
 - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Lakshadweep.

SPATIAL DISTRIBUTION (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)

Subdivision Warning	 Dust Storm	Subdivision color
 Heavy Rain	 Strong Surface Winds	 NO WARNING
 Heavy Snow	 Heat Wave	 WATCH(BE UPDATED)
 Thunderstorms & Lightning	 Cold wave	 ALERT (BE PREPARED)
 Hailstorm	 Fog	 WARNING (TAKE ACTION)

Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75